

MongoDB with PHP

@dlaxar



mongoDB





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mongoDB



I. Basics

What is PHP?

What is PHP?

okay, scratch that

What is MongoDB?

What is MongoDB?

NoSQL

Document Storage

JavaScript

What is MongoDB?

NoSQL

No SQL?

NoSQL

Not Only SQL

NoSQL vs SQL Deathmatch

NoSQL vs SQL

SQL

NoSQL

NoSQL vs SQL

SQL

Postgres, Oracle, MySQL,
MariaDB, Microsoft SQL, ...

NoSQL

MongoDB, CouchDB, Cloudbant,
Neo4j, OrientDB,
Dynamo, Redis, Merkely DB, BigTable, ...

NoSQL vs SQL

SQL

Postgres, Oracle, MySQL,
MariaDB, Microsoft SQL, ...

Joins

NoSQL

MongoDB, CouchDB, Cloudbant,
Neo4j, OrientDB,
Dynamo, Redis, Merkely DB, BigTable, ...

Nested

NoSQL vs SQL

SQL

Postgres, Oracle, MySQL,
MariaDB, Microsoft SQL, ...

Joins

Schema

NoSQL

MongoDB, CouchDB, Cloudbant,
Neo4j, OrientDB,
Dynamo, Redis, Merkely DB, BigTable, ...

Nested

Schema-Less

NoSQL vs SQL

SQL

Postgres, Oracle, MySQL,
MariaDB, Microsoft SQL, ...

Joins

Schema

SQL

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MongoDB, CouchDB, Cloudbant,
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Nested

Schema-Less

Not Only SQL

NoSQL vs SQL

SQL

NoSQL

NoSQL vs SQL

SQL

NoSQL

Proven

New

NoSQL vs SQL

SQL	NoSQL
Proven	New
Scaling added	Scaling from start

NoSQL vs SQL

SQL	NoSQL
Proven	New
Scaling added	Scaling from start
Indexing	Well...

NoSQL vs SQL

SQL	NoSQL
Proven	New
Scaling added	Scaling from start
Indexing	Well...
Transactions	Well...

NoSQL vs SQL

SQL	NoSQL
Proven	New
Scaling added	Scaling from start
Indexing	Well...
Transactions	Well...
Consistent	Flexible

What is MongoDB?

NoSQL

What is MongoDB?

NoSQL

Document Storage

Document Storage?

NoSQL Storages

NoSQL Storages

Key-Value (KV)

Name: Daniel

Age: 19

Profession: Code

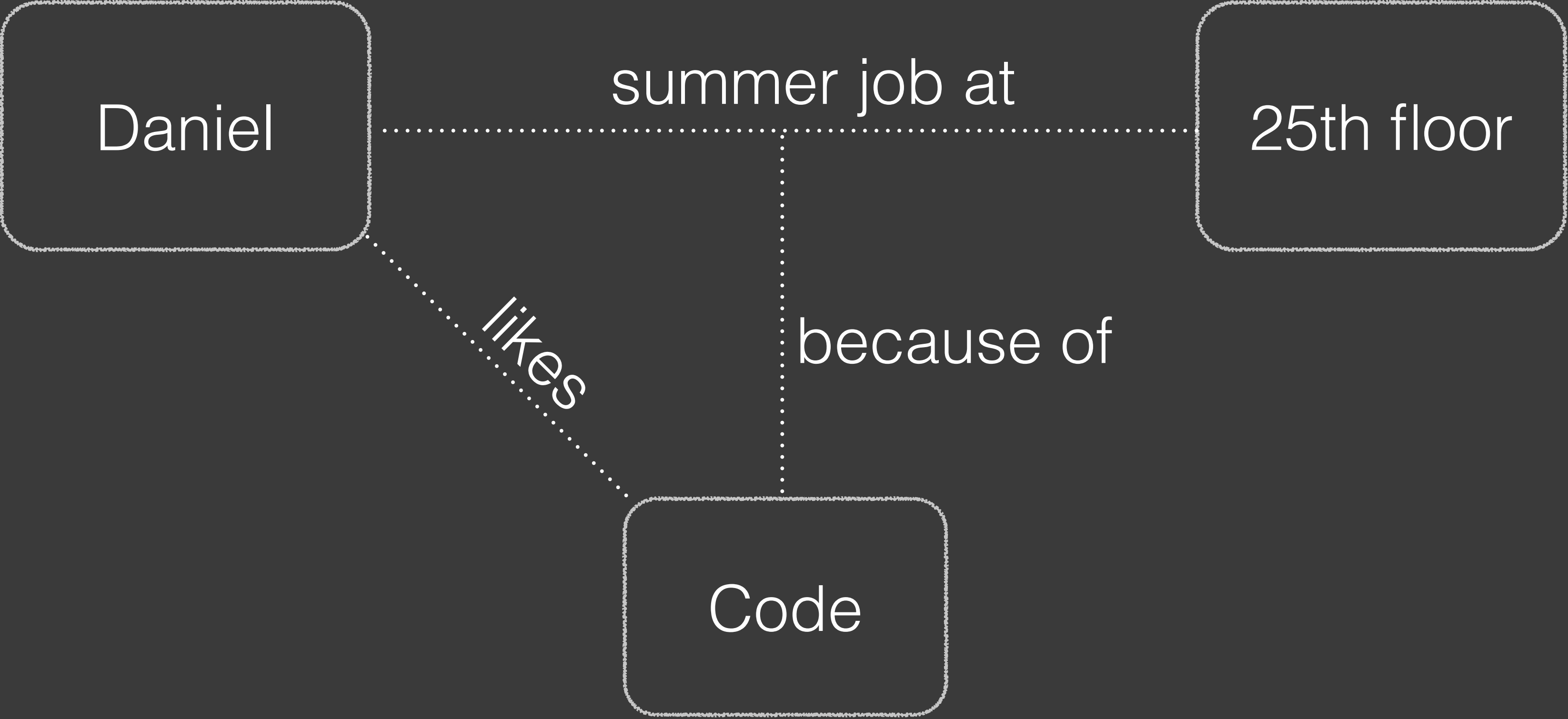
NoSQL Storages

Key-Value (KV)

NoSQL Storages

Key-Value (KV)

Graphs



NoSQL Storages

Key-Value (KV)

Graphs

NoSQL Storages

Key-Value (KV)

Graphs

Wide-Column Stores (BigData, eh)

Names	Ages	Professions
Daniel	19	Code
Franz	20	Design
Armin	19	Design

```
select sum(age) → 58
```

NoSQL Storages

Key-Value (KV)

Graphs

Wide-Column Stores (BigData, eh)

NoSQL Storages

Key-Value (KV)

Graphs

Wide-Column Stores (BigData, eh)

Document Databases

Document Databases

Document Databases

Keys

Document Databases

Keys

complex and nested data structure

Name: Daniel

Age: 19

Worked At:

GT: [1.8.2011, 31.8.2011]

GT: [1.8.2012, 31.8.2012]

25th: [1.8.2013, 31.8.2013],

25th: [1.7.2014, null]

Document Databases

Keys

complex and nested data structure

Document Databases

Keys

complex and nested data structure

int, float, array, blobs/clobs, objects

What is MongoDB?

NoSQL

Document Storage

What is MongoDB?

NoSQL

Document Storage

JavaScript

JavaScript?

JavaScript

...

instead of SQL

What is MongoDB?

NoSQL

Document Storage

JavaScript

II. MongoDB in Action

III. PHP+MongoDB

A ToDo Application

Lists

Tasks

Status

A ToDo Application

HTML+JS

REST

PHP

Doctrine

MongoDB

<https://github.com/dlaxar/modo>